UTAH WIND WORKING GROUP

Minutes/Summary

Site/Time: Utah Wind Working Group Meeting was held April 6, 2005 at the Salt Lake City

Public Library, 210 East 400 South in Salt Lake City Utah.

Objectives: (1) inform and educate members about wind resources and development in Utah,

and (2) help remove barriers to wind development by creating a set of action

items to focus the working group.

Facilitation: Sarah Wright (Utah Clean Energy) and Nykole Littleboy (Utah Geological

Survey, State Energy Program).

The meeting convened at 10 a.m. followed by introductions of all participants.

<u>10:15am</u> - Terrah Anderson, Governor's Office of Planning and Budget - Update on Utah Energy Policy.

• Terrah Anderson informed the WWG of the Governor's plans to prioritize energy development and of the passage of SB 199, which will dissolve the Utah Energy Office (UEO) on May 15, 2005. As a result of this bill, the Clean Fuel Vehicles Grant and Loan Program will be transferred to the Department of Environmental Quality (DEQ), the State Building Energy Efficiency Program will be transferred to the Division of Facilities Construction and Management (DFCM), the State Energy Program (SEP) and the Utah Renewable Energy Tax Credit is now located at the Utah Geological Survey, and the Governor will be appointing an Energy Policy Advisor over the next two months. Terrah was available throughout lunch for questions.

<u>10:30am</u> - Joe Locurto, Director of Uinta County Economic Development - Economic Development Benefits of the Evanston, Wyoming 144 MW Wind Farm.

Logistics

- 80 1.5 megawatt Vestas wind turbines with 144 megawatt output
- \$143 Million construction costs
- 19 Utah communities agreed to purchase a portion of the output at wholesale
- the project created temporary local jobs during construction and permanent positions for operation of the wind farm

Revenue Generation

- \$6 Million of project value subject to local and state sales & use tax
- \$140 Million of project value subject to ad valorum taxation
- 2004 assessed value of project brought in \$1,212,749 to Uinta County
- About \$900,000 of this goes to schools and education

- \$2000 to \$4000 per year/per tower in royalties to private land owners
- Project impact funds during construction:
 - -Evanston \$78,447
 - -Uinta County \$39,223
 - -Mountain View & Lyman \$15,689 each
 - -Bear River \$7,844
- 11:00am Greg Probst Update on PacifiCorp QF proceedings and potential impact on wind development in Utah.
 - QF (qualifying facilities) proceedings could have significant impact on the viability of wind development in Utah.

There are four important issues:

- 1. Ownership of renewable energy credits or green tags
- 2. Capacity payment
- 3. Wind integration costs
- 4. Gas price and environmental hedging benefits of renewable energy sources
- Scheduling conference held on Wednesday, April 13th.
- 11:15am Ron Binz, author of *The Impact of a Renewable Energy Portfolio Standard on Retail Electric Rates in Colorado*.
 - Study compares the economic and environmental impacts of using renewable energy versus fossil fuels such as coal and natural gas. Ron Binz is a consulting utility expert, and a veteran analyst of the utility industry, with more than 25 years experience. For 11 years until 1995, Binz was Consumer Counsel for the State of Colorado.

Conclusions

- -RES will likely have minimal impact on rates;
- -Varies by utility;
- -Very unlikely to exceed 50¢ cap on residential rates;
- -Wind savings offset solar costs
- -Substantial air and water benefits
- -Rural economic development benefits

12:00pm – Larry Flowers, Team Leader, National Renewable Energy Laboratory – Wind Powering America & Wind for Schools Pilot (Luncheon Speaker)

Overview

- Wind Powering America's strategies and state activities and management activities, publications and website
- Utility partnerships
- Wind resource mapping
- Native American outreach
- Rural economic development
- Distributed (small) wind

<u>12:30pm</u> - Jim Green, Senior Engineer, National Renewable Energy Laboratory - Utah's Wind Resource Assessment

- The State Enegry Program has been working with NREL on a series of overlays, which depict developable wind resources on state lands. Wind class, accessibility to transmission lines and roads and those define the developable areas, which are not in a restricted area (Wilderness Areas etc.). UGS will continue to work with NREL on the project to determine developable wind resources on federally owned and private lands.
- This presentation can be found at geology.utah.gov

1:00pm - Facilitated discussion and development of White Paper wind briefing *Potential Components of White Paper*

- Benefits/Savings
 - -use Wyoming numbers until UT studies completed
 - -large, medium, small and community wind
 - -comparison with other energy resources (include external costs)
 - -offset future growth
 - -water resources
 - -rural community development and quality of life
 - -load distribution
 - -stability (future investment)
 - -homegrown
 - -export capabilities
 - -jobs
 - -reduce air pollution
- Misconceptions
 - -reliability/availability
 - -economics
 - -intermittency impacts
 - -use credible sources (NREL Top Ten, NY Times Article)
 - -not inconsistent with oil/gas production
 - -can offset natural gas prices
 - -define obstacles
 - -risk assessment
- Studies
 - -EPRI
 - -Balanced Energy Plan for the West
 - -USU?DOE global warming
 - -ski resorts
 - -UGS study-mercury (EPA)

- Partnerships
 - -School and Institutional Trust Lands Administration (SITLA)
 - Specific small and large companies/businesses
 - -emerging industry
 - -equipment manufacturers
 - -DEQ incentives
- Potential Policy Actions
 - -Support in regulatory arena
 - -RPS or Renewable Energy Standard (RES)
 - -Education opportunities
 - 1. Environmental & Economic
 - 2. Techniques of other states/application to Utah –state models
 - -Point out existing policies
 - -Transmission/information clearinghouse
 - -public desire (polls and Blue Sky Program)
 - -lower cost financing (especially in rural communities)
- Costs
 - -projected
 - -supply curve
 - -selling to CA and tax issues
- Barriers
 - -economic and environmental regulations
 - -Power purchase agreement
 - -integration expenses
 - -NIMBY (aesthetics)
 - -Utah paradigm (promotion of wind power, reduce nuclear wastes)
- *A committee will be formed to work on a draft of the paper, meeting scheduled tentatively for April 27th
- ** Please email either Nykole at nykolelittleboy@utah.gov or Sarah at sarah@utahcleanenergy.org if you would like to be involved in the creation of the white paper
- 3:00pm Ed Stafford and Cathy Hartman USU is the honored recipient of a \$500,000 DOE Wind Earmark. Ed and Cathy gave a brief update on the status of the earmark and potential activities planned to advance wind power.

Their study will focus on two main projects:

- 1. Research on the market and policy factors driving renewable energy development in Utah and,
- 2. A peer-reviewed website of "wind facts" geared for policy makers.
- <u>3:15pm</u> Philippe Wyffels, Business Manager of The Leonardo @ Library Square Sustainability Showcase in Salt Lake City
 - More info can be found at www.theleonardo.org/
- 3:30pm Meeting adjourned

Attendee list for UWWG meeting – April 6, 2005, Public Library, SLC, 4th Floor In order received:

1.	Ron Binz	Public Policy Consultant		
2.	Jim Green	National Renewable Energy Laboratory		
3.	Joe Locurto	Uinta County, Wyoming Economic Development		
4.	Greg Probst	Energy Consultant		
5.	Larry Flowers	National Renewable Energy Laboratory, Wind Powering America		
6.	Terrah Anderson	Governor's Office of Planning and Budget		
7.	Sarah Wright	Utah Clean Energy		
8.	Glade Sowards	State Energy Program		
9.	Cheryl Murray	Utah Committee of Consumer Services		
10.	Mike Adams	Interested citizen, Land owner		
11.	Brylan Schultz	Interested citizen		
12.	Laird Jenkins	Beaver School District		
13.	Mike Malmquist	Parsons Behle & Latimer		
14.	Tim Parkinson	Utah National Guard		
15.	Mark Holt	Electrical Engineer, USU		
16.	Lorin Mortensen	Mechanical Engineer, USU		
17.	Craig Hansen	Windward Engineering LC		
18.	Gary D. Tassainer	TASCO		
19.	Tim Wagner	Sierra Club Utah Chapter		
20.	Keith Hill	Desert Power		
21.	Ivan Weber	Weber Sustainability Consulting		
22.	Vicki Kennedy-Overfeld	Interested Citizen		
23.	John Seymour	FPL Energy		
24.	John Campos	St George Steel Fabricating		
25.	Bruce Munson	Johnson Controls		
26.	Gar Workman	Progressive Solutions, LLC		
27.	Gil Miller	Progressive Solutions, LLC		
28.	Christine Watson Mikell	Isotruss Structures		
29.	Roger Swenson	E-Quant Consulting		
30.	Anne Buccanbuso	Interested citizen		
31.	Reed Balls	Utah Farm Bureau		
32.	Todd Bingham	Utah Farm Bureau		
33.	Bruce Adams	San Juan County Commissioner		
34.	Cheryl Heying	Division of Air Quality		
35.	Elizabeth Brereton	Utah Division of Public Utilities		
36.	Nykole Littleboy	State Energy Program		
37.	Marty Banks	Stoel Rives		

^{*}Thank you to all those that attended, especially those who traveled long distances! *Note, we were only able to include those participants that signed the participant list, we apologize for any that we may have missed.